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L9	118	receiv\$3 same information\$1 same identif\$5 and query\$3 near2 element\$ and @ad<"20010117"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/04/15 16:43
L10	36	9 and set near3 element\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/04/15 16:44
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L12	36	10 and (quer\$3 or search\$3) near4 element\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/04/15 16:46
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L14	-2867	707/102.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/04/15 17:23
L15	6	14 and "data structure" and "query element"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/04/15 17:25
L16	5	15 and comparison\$1 and set	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/04/15 17:25



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Out-of-core build of a topological data structure from polygon soup

Sara McMains, Joseph M. Hellerstein, Carlo H. Séquin

May 2001 Proceedings of the sixth ACM symposium on Solid modeling and applications

Full text available: pdf(1.22 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

Many solid modeling applications require information not only about the geometry of an object but also about its topology. Most interchange formats do not provide this information, which the application must then derive as it builds its own topological data structure from unordered, "polygon soup" input. For very large data sets, the topological data structure itself can be bigger than core memory, so that a naive algorithm for building it that doesn't take virtual memory access p ...

2 A Survey of Data Structures for Computer Graphics Systems

Robin Williams

January 1971 ACM Computing Surveys (CSUR), Volume 3 Issue 1

Full text available: pdf(1.67 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

This is a survey of a data structures and their use in computer graphics systems. First, the reasons for using data structures are given. Then the sequential, random, and list organizations are discussed, and it is shown how they may be used to build complex data structures. Representative samples of languages specifically designed for creating and manipulating data structures are described next. Finally some typical computer graphics systems and their data structures are described. It is a ...

3 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research

Full text available: 2df(4.21 MB)

Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

4 Streams, structures, spaces, scenarios, societies (5s): A formal model for digital libraries



Marcos André Gonçalves, Edward A. Fox, Layne T. Watson, Neill A. Kipp April 2004 ACM Transactions on Information Systems (TOIS), Volume 22 Issue 2

Full text available: pdf(316.85 KB)

Additional Information: full citation, abstract, references, citings, index terms, review

Digital libraries (DLs) are complex information systems and therefore demand formal foundations lest development efforts diverge and interoperability suffers. In this article, we propose the fundamental abstractions of Streams, Structures, Spaces, Scenarios, and Societies (5S), which allow us to define digital libraries rigorously and usefully. Streams are sequences of arbitrary items used to describe both static and dynamic (e.g., video) content. Structures can be viewed as labeled directed gra ...

Keywords: applications., definitions, foundations, taxonomy

The Quadtree and Related Hierarchical Data Structures

Hanan Samet

June 1984 ACM Computing Surveys (CSUR), Volume 16 Issue 2

Full text available: pdf(4.87 MB)

Additional Information: full citation, references, citings, index terms

Special issue: Al in engineering

D. Sriram, R. Joobbani

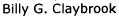
January 1985 ACM SIGART Bulletin, Issue 91

Full text available: pdf(8.79 MB)

Additional Information: full citation, abstract

The papers in this special issue were compiled from responses to the announcement in the July 1984 issue of the SIGART newsletter and notices posted over the ARPAnet. The interest being shown in this area is reflected in the sixty papers received from over six countries. About half the papers were received over the computer network.

7 A facility for defining and manipulating generalized data structures



December 1977 ACM Transactions on Database Systems (TODS), Volume 2 Issue 4

Full text available: pdf(2.87 MB)

Additional Information: full citation, abstract, references, citings, index terns

A data structure definition facility (DSDF) is described that provides definitions for several primitive data types, homogeneous and heterogeneous arrays, cells, stacks, queues, trees, and general lists. Each nonprimitive data structure consists of two separate entities—a head and a body. The head contains the entry point(s) to the body of the structure; by treating the head like a cell, the DSDF operations are capable of creating and manipulating very general data structures. A templ ...

Keywords: data definition languages, data structure definition facility, data structures, database management

Software reuse Charles W. Krueger June 1992 ACM Computing Surveys (CSUR), Volume 24 Issue 2



Full text available: pdf(4.96 MB)

Additional Information: full citation, abstract, references, citings, index <u>terms</u>

Software reuse is the process of creating software systems from existing software rather than building software systems from scratch. This simple yet powerful vision was introduced in 1968. Software reuse has, however, failed to become a standard software engineering practice. In an attempt to understand why, researchers have renewed their interest in software reuse and in the obstacles to implementing it. This paper surveys the different approaches to software reuse found in the ...

Keywords: abstraction, cognitive distance, software reuse

External memory algorithms and data structures: dealing with massive data Jeffrey Scott Vitter



Full text available: 📆 ಂಗ(828,46 KB)

Additional Information: full citation, abstract, references, citings, index terms

Data sets in large applications are often too massive to fit completely inside the computers internal memory. The resulting input/output communication (or I/O) between fast internal memory and slower external memory (such as disks) can be a major performance bottleneck. In this article we survey the state of the art in the design and analysis of external memory (or EM) algorithms and data structures, where the goal is to exploit locality in order to reduce the I/O costs. We consider a varie ...

Keywords: B-tree, I/O, batched, block, disk, dynamic, extendible hashing, external memory, hierarchical memory, multidimensional access methods, multilevel memory, online, out-of-core, secondary storage, sorting

10 An XML query engine for network-bound data

Zachary G. Ives, A. Y. Halevy, D. S. Weld

December 2002 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 11 Issue 4

Full text available: pdf(351.86 KB) Additional Information: full citation, abstract, citings, index terms

XML has become the lingua franca for data exchange and integration across administrative and enterprise boundaries. Nearly all data providers are adding XML import or export capabilities, and standard XML Schemas and DTDs are being promoted for all types of data sharing. The ubiquity of XML has removed one of the major obstacles to integrating data from widely disparate sources - namely, the heterogeneity of data formats. However, general-purpose integration of data across the wide are a also re ...

Keywords: Data integration, Data streams, Query processing, Web and databases, XML

11 Computing curricula 2001

September 2001 Journal on Educational Resources in Computing (JERIC)

Full text available: pdf(613.63 KB) **8** himl(2.78 KB)

Additional Information: full citation, references, citings, index terms

12 Reusable Ada libraries supporting infinite data structures

Arthur G. Duncan

November 1998 ACM SIGAda Ada Letters, Proceedings of the 1998 annual ACM SIGAda



international conference on Ada, Volume XVIII Issue 6

Full text available: Page pdf(1.49 MB)

Additional Information: full citation, references, index terms

Keywords: Ada, functional programming, infinite data structures, lazy evaluation

13 IS '97: model curriculum and quidelines for undergraduate degree programs in information systems



Gordon B. Davis, John T. Gorgone, J. Daniel Couger, David L. Feinstein, Herbert E. Longenecker

December 1996 ACM SIGMIS Database, Guidelines for undergraduate degree programs on Model curriculum and guidelines for undergraduate degree programs in information systems, Volume 28 Issue 1

Full text available: Todf(7.24 MB)

Additional Information: full citation, citings

14 Session 1A: The Bloomier filter: an efficient data structure for static support lookup tables



Bernard Chazelle, Joe Kilian, Ronitt Rubinfeld, Ayellet Tal

January 2004 Proceedings of the fifteenth annual ACM-SIAM symposium on Discrete algorithms

Full text available: (2012) Additional Information: full citation, abstract, references

We introduce the Bloomier filter, a data structure for compactly encoding a function with static support in order to support approximate evaluation queries. Our construction generalizes the classical Bloom filter, an ingenious hashing scheme heavily used in networks and databases, whose main attribute---space efficiency---is achieved at the expense of a tiny false-positive rate. Whereas Bloom filters can handle only set membership queries, our Bloomier filters can deal with arbitrary func ...

15 Pointer analysis for structured parallel programs



Radu Rugina, Martin C. Rinard

January 2003 ACM Transactions on Programming Languages and Systems (TOPLAS), Volume 25 Issue 1

Full text available: (383.29 KB) Additional Information: full citation, abstract, references, index terms

This paper presents a novel interprocedural, flow-sensitive, and context-sensitive pointer analysis algorithm for multithreaded programs that may concurrently update shared pointers. The algorithm is designed to handle programs with structured parallel constructs, including fork-join constructs, parallel loops, and conditionally spawned threads. For each pointer and each program point, the algorithm computes a conservative approximation of the memory locations to which that pointer may point. Th ...

Keywords: Pointer analysis

16 Research sessions: schema discovery: Information-theoretic tools for mining database structure from large data sets



Periklis Andritsos, Renée J. Miller, Panayiotis Tsaparas

June 2004 Proceedings of the 2004 ACM SIGMOD international conference on Management of data

Full text available: 2012 Additional Information: full citation, abstract, references

Data design has been characterized as a process of arriving at a design that maximizes the

information content of each piece of data (or equivalently, one that minimizes redundancy). Information content (or redundancy) is measured with respect to a prescribed model for the data, a model that is often expressed as a set of constraints. In this work, we consider the problem of doing data redesign in an environment where the prescribed model is unknown or incomplete. Specifically, we consider the p ...

17 On understanding types, data abstraction, and polymorphism

Luca Cardelli, Peter Wegner

December 1985 ACM Computing Surveys (CSUR), Volume 17 Issue 4

Full text available: pdf(4.20 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

Our objective is to understand the notion of *type* in programming languages, present a model of typed, polymorphic programming languages that reflects recent research in type theory, and examine the relevance of recent research to the design of practical programming languages. Object-oriented languages provide both a framework and a motivation for exploring the interaction among the concepts of type, data abstraction, and polymorphism, since they extend the notion of type t ...

18 Data structures and algorithms for disjoint set union problems



Zvi Galil, Giuseppe F. Italiano

September 1991 ACM Computing Surveys (CSUR), Volume 23 Issue 3

Full text available: pdf(2.31 MB)

Additional Information: full citation, references, citings, index terms, review

Keywords: equivalence algorithm, partition, set union, time complexity

19 Special issue: Game-playing programs: theory and practice



M. A. Bramer

April 1972 ACM SIGART Bulletin, Issue 80

Full text available: pdf(9.23 MB)

Additional Information: full citation, abstract

This collection of articles has been brought together to provide SIGART members with an overview of Artificial Intelligence approaches to constructing game-playing programs. Papers on both theory and practice are included.

20 Formal interpreters for diagram notations



Luciano Baresi, Mauro Pezzè

January 2005 ACM Transactions on Software Engineering and Methodology (TOSEM),
Volume 14 Issue 1

Full text available: pcf(834.85 KB) Additional Information: full citation, abstract, references, index terms

The article proposes an approach for defining extensible and flexible formal interpreters for diagram notations with significant dynamic semantics. More precisely, it addresses semi-formal diagram notations that have precisely-defined syntax, but informally defined (dynamic) semantics. These notations are often flexible to fit the different needs and expectations of users. Flexibility comes from the incompleteness or informality of the original definition and results in different interpretations ...

Keywords: Semi-formal notations, graph transformation, high-level Petri nets, semantics

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External memory algorithms and data structures: dealing with massive data Jeffrey Scott Vitter

June 2001 ACM Computing Surveys (CSUR), Volume 33 Issue 2

Full text available: not(828.45 KB)

Additional Information: full citation, abstract, references, citings, index terms

Data sets in large applications are often too massive to fit completely inside the computers internal memory. The resulting input/output communication (or I/O) between fast internal memory and slower external memory (such as disks) can be a major performance bottleneck. In this article we survey the state of the art in the design and analysis of external memory (or EM) algorithms and data structures, where the goal is to exploit locality in order to reduce the I/O costs. We consider a varie ...

Keywords: B-tree, I/O, batched, block, disk, dynamic, extendible hashing, external memory, hierarchical memory, multidimensional access methods, multilevel memory, online, out-of-core, secondary storage, sorting

Supporting shared data structures on distributed memory architectures

C. Koelbel, P. Mehrotra, J. Van Rosendale

February 1990 ACM SIGPLAN Notices, Proceedings of the second ACM SIGPLAN symposium on Principles & practice of parallel programming, Volume 25

Full text available: pdf(1.14 MB)

Additional Information: full citation, abstract, references, citings, index

Programming nonshared memory systems is more difficult than programming shared memory systems, since there is no support for shared data structures. Current programming languages for distributed memory architectures force the user to decompose all data structures into separate pieces, with each piece "owned" by one of the processors in the machine, and with all communication explicitly specified by low-level message-passing primitives. This paper presents a new programming envir ...

A Survey of Data Structures for Computer Graphics Systems Robin Williams

January 1971 ACM Computing Surveys (CSUR), Volume 3 Issue 1

Full text available: pdf(1.67 MB)

Additional Information: full citation, abstract, references, citings, index



This is a survey of a data structures and their use in computer graphics systems. First, the reasons for using data structures are given. Then the sequential, random, and list organizations are discussed, and it is shown how they may be used to build complex data structures. Representative samples of languages specifically designed for creating and manipulating data structures are described next. Finally some typical computer graphics systems and their data structures are described. It is a ...

4 Automatic data structure selection: an example and overview.



James R. Low

May 1978 Communications of the ACM, Volume 21 Issue 5

Full text available: mixif(1 14 MB)

Additional Information: full citation, abstract, references, citings, index

The use of several levels of abstraction has proved to be very helpful in constructing and maintaining programs. When programs are designed with abstract data types such as sets and lists, programmer time can be saved by automating the process of filling in low-level implementation details. In the past, programming systems have provided only a single general purpose implementation for an abstract type. Thus the programs produced using abstract types were often inefficient in space or time. ...

Keywords: abstract data types, automatic programming, data structures, lists, optimizing compilers, sets

5 Anti-presistence: history independent data structures



Moni Naor, Vanessa Teague

July 2001 Proceedings of the thirty-third annual ACM symposium on Theory of computing

Full text available: 7 pdf(308.07 KB)

Additional Information: full citation, abstract, references, citings, index terms

Many data structures give away much more information than they were intended to. Whenever privacy is important, we need to be concerned that it might be possible to infer information from the memory representation of a data structure that is not available through its "legitimate" interface. Word processors that quietly maintain old versions of a document are merely the most egregious example of a general problem. We deal with data structures whose current memory repres ...

Keywords: algorithms, anti-persistence, data structures, hash table, history independence, privacy, security

Data structures and algorithms for disjoint set union problems



Zvi Galil, Giuseppe F. Italiano

September 1991 ACM Computing Surveys (CSUR), Volume 23 Issue 3

Full text available: Resign (2.31 MB) Additional Information: fall citation, references, citings, index terms, review

Keywords: equivalence algorithm, partition, set union, time complexity

7 Automatic detection and repair of errors in data structures Brian Demsky, Martin Rinard October 2003 ACM SIGPLAN Notices, Proceedings of the 18th annual ACM SIGPLAN



conference on Object-oriented programing, systems, languages, and applications, Volume 38 Issue 11

Full text available: pcif(340,56 KB)

Additional Information: full citation, abstract, references, citings, index terms

We present a system that accepts a specification of key data structure consistency constraints, then dynamically detects and repairs violations of these constraints, enabling the program to continue to execute productively even in the face of otherwise crippling errors. Our experience using our system indicates that the specifications are relatively easy to develop once one understands the data structures. Furthermore, for our set of benchmark applications, our system can effectively repair inco ...

Keywords: data structure invariants, data structure repair

8 Out-of-core build of a topological data structure from polygon soup Sara McMains, Joseph M. Hellerstein, Carlo H. Séquin

May 2001 Proceedings of the sixth ACM symposium on Solid modeling and applications

Full text available: pdf(1,22 MB)

Additional Information: full cliation, abstract, references, citings, index

Many solid modeling applications require information not only about the geometry of an object but also about its topology. Most interchange formats do not provide this information, which the application must then derive as it builds its own topological data structure from unordered, "polygon soup" input. For very large data sets, the topological data structure itself can be bigger than core memory, so that a naive algorithm for building it that doesn't take virtual memory access p ...

Supporting dynamic data structures on distributed-memory machines Anne Rogers, Martin C. Carlisle, John H. Reppy, Laurie J. Hendren March 1995 ACM Transactions on Programming Languages and Systems (TOPLAS), Volume 17 Issue 2

Full text available: pdf(2.05 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

Compiling for distributed-memory machines has been a very active research area in recent years. Much of this work has concentrated on programs that use arrays as their primary data structures. To date, little work has been done to address the problem of supporting programs that use pointer-based dynamic data structures. The techniques developed for supporting SPMD execution of array-based programs rely on the fact that arrays are statically defined and directly addressable. Recursive data s ...

Keywords: dynamic data structures

10 Data structure architectures - a major operational principle

W. K. Giloi, H. K. Bera

April 1978 Proceedings of the 5th annual symposium on Computer architecture

Full text available: pdf(686.80 KB)

Additional Information: full citation, abstract, references, citings, index

Computer architectures may be characterized by their operational principle and their physical structure. The paper defines these two characteristics for the novel concept of data structure architectures (DSAs). The representation and processing of arbitrary data structures in such a DSA is demonstrated by examples. It is shown how the functional requirements of a DSA can be satisfied by the specific information structure and the physical structure of the STARLET architecture introduced in p ...



11 Array regrouping and structure splitting using whole-program reference affinity Yutao Zhong, Maksim Orlovich, Xipeng Shen, Chen Ding



June 2004 ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 2004 conference on Programming language design and implementation, Volume 39 Issue 6

Full text available: sdf(202.16 KB)

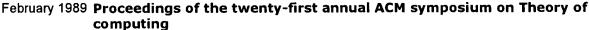
Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> <u>lerms</u>

While the memory of most machines is organized as a hierarchy, program data are laid out in a uniform address space. This paper defines a model of *reference affinity*, which measures how close a group of data are accessed together in a reference trace. It proves that the model gives a hierarchical partition of program data. At the top is the set of all data with the weakest affinity. At the bottom is each data element with the strongest affinity. Based on the theoretical model, the paper p ...

Keywords: array regrouping, program locality, program transformation, reference affinity, reuse signature, structure splitting, volume distance

12 The cell probe complexity of dynamic data structures

M. Fredman, M. Saks



Full text available: mixif(1 23 MB)

Additional Information: full citation, abstract, references, citings, index terms

Dynamic data structure problems involve the representation of data in memory in such a way as to permit certain types of modifications of the data (updates) and certain types of questions about the data (queries). This paradigm encompasses many fundamental problems in computer science. The purpose of this paper is to prove new lower and upper bounds on the time per operation to implement solutions to some familiar dynamic data structure problems including list representation, sub ...

13 Software transactional memory for dynamic-sized data structures

Maurice Herlihy, Victor Luchangco, Mark Moir, William N. Scherer

July 2003 Proceedings of the twenty-second annual symposium on Principles of distributed computing

Full text available: mcf(1.11 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u>

We propose a new form of software transactional memory (STM) designed to support dynamic-sized data structures, and we describe a novel non-blocking implementation. The non-blocking property we consider is *obstruction-freedom*. Obstruction-freedom is weaker than lock-freedom; as a result, it admits substantially simpler and more efficient implementations. A novel feature of our obstruction-free STM implementation is its use of modular contention managers to ensure progress in practice. We ...

14 A logical approach to data structures

Russell Turpin

December 1993 ACM SIGSOFT Software Engineering Notes, Proceedings of the 1st ACM SIGSOFT symposium on Foundations of software engineering, Volume 18 Issue 5

Full text available: pdf(1.07 MB)

Additional Information: full citation, abstract, references, index terms

The Galois project at the University of Texas is building a programming environment that supports the formal development and verification of data structure programs. This programming environment supports features such as pointer manipulation and destructive update that often make formal treatment difficult.



15 Techniques for the automatic selection of data structures

James Low, Paul Rovner



Full text available: pdf(780.37 KB)

Additional Information: full citation, abstract, references, citings, index terms

We are all aware of the development of increasingly sophisticated, elaborate, and expensive computer programs, particularly in the fields of artificial intelligence, data base management, and intelligent systems. The need for techniques to deal with such complexity has renewed interest in programming language research. Recent work on structured programming, intelligent compilers, automatic program generation and verification, and high-level optimization has resulted. A pattern of ...

16 Pointer analysis for structured parallel programs

Radu Rugina, Martin C. Rinard

January 2003 ACM Transactions on Programming Languages and Systems (TOPLAS), Volume 25 Issue 1

Full text available: Additional Information: full citation, abstract, references, index terms

This paper presents a novel interprocedural, flow-sensitive, and context-sensitive pointer analysis algorithm for multithreaded programs that may concurrently update shared pointers. The algorithm is designed to handle programs with structured parallel constructs, including fork-join constructs, parallel loops, and conditionally spawned threads. For each pointer and each program point, the algorithm computes a conservative approximation of the memory locations to which that pointer may point. Th ...

Keywords: Pointer analysis

17 A general data dependence test for dynamic, pointer-based data structures Joseph Hummel, Laurie J. Hendren, Alexandru Nicolau

June 1994 ACM SIGPLAN Notices, Proceedings of the ACM SIGPLAN 1994 conference on Programming language design and implementation, Volume 29 Issue 6

Full text available: pdf(1,27 MB)

Additional Information: full citation, abstract, references, citings, index terms

Optimizing compilers require accurate dependence testing to enable numerous, performance-enhancing transformations. However, data dependence testing is a difficult problem, particularly in the presence of pointers. Though existing approaches work well for pointers to named memory locations (i.e. other variables), they are overly conservative in the case of pointers to unnamed memory locations. The latter occurs in the context of dynamic, pointer-based data structures, used in a variety of a ...

18 The Quadtree and Related Hierarchical Data Structures

Hanan Samet

June 1984 ACM Computing Surveys (CSUR), Volume 16 Issue 2

Full text available: pdf(4.87 MB)

Additional Information: full citation, references, citings, index terms

19 Dependence based prefetching for linked data structures

Amir Roth, Andreas Moshovos, Gurindar S. Sohi

October 1998 Proceedings of the eighth international conference on Architectural support for programming languages and operating systems, Volume 32, 33 Issue 5 , 11







Full text available: 📆 😅(1.81 MB)

Additional Information: full citation, abstract, references, citings, index

We introduce a dynamic scheme that captures the accesspat-terns of linked data structures and can be used to predict future accesses with high accuracy. Our technique exploits the dependence relationships that exist between loads that produce addresses and loads that consume these addresses. By identzj+ing producer-consumer pairs, we construct a compact internal representation for the associated structure and its traversal. To achieve a prefetching eflect, a small prefetch engine speculatively t ...

20 Burst tries: a fast, efficient data structure for string keys

April 2002 ACM Transactions on Information Systems (TOIS), Volume 20 Issue 2



Additional Information: full citation, abstract, references, citings, index terms, review

Many applications depend on efficient management of large sets of distinct strings in memory. For example, during index construction for text databases a record is held for each distinct word in the text, containing the word itself and information such as counters. We propose a new data structure, the burst trie, that has significant advantages over existing options for such applications: it uses about the same memory as a binary search tree; it is as fast as a trie; and, while not as fast as a ...

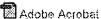
Keywords: Binary trees, splay trees, string data structures, text databases, tries, vocabulary accumulation

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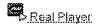
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Session 4A: Retroactive data structures

Erik D. Demaine, John Iacono, Stefan Langerman

January 2004 Proceedings of the fifteenth annual ACM-SIAM symposium on Discrete algorithms

Full text available: 📆 edf(183.43 KB) Additional Information: full citation, abstract, references

We introduce a new data structuring paradigm in which operations can be performed on a data structure not only in the present but also in the past. In this new paradigm, called retroactive data structures, the historical sequence of operations performed on the data structure is not fixed. The data structure allows arbitrary insertion and deletion of operations at arbitrary times, subject only to consistency requirements. We initiate the study of retroactive data structures by formally def ...

2 Paper session 4: XML query processing: Twig query processing over graph-structured XML data



Zografoula Vagena, Mirella M. Moro, Vassilis J. Tsotras

June 2004 Proceedings of the 7th International Workshop on the Web and Databases: colocated with ACM SIGMOD/PODS 2004

Full text available: adi(522.10 KB) Additional Information: full citation, abstract, references, index terms

XML and semi-structured data is usually modeled using graph structures. Structural summaries, which have been proposed to speedup XML query processing have graph forms as well. The existent approaches for evaluating queries over tree structured data (i.e. data whose underlying structure is a tree) are not directly applicable when the data is modeled as a random graph. Moreover, they cannot be applied when structural summaries are employed and, to the best of our knowledge, no analo ...

3 Internet applications: Load balancing and locality in range-queriable data structures James Aspnes, Jonathan Kirsch, Arvind Krishnamurthy



July 2004 Proceedings of the twenty-third annual ACM symposium on Principles of distributed computing

Additional Information: full citation, abstract, references, index terms Full text available: pdf(236,00 KB)

We describe a load-balancing mechanism for assigning elements to servers in a distributed data structure that supports range queries. The mechanism ensures both load-balancing with respect to an arbitrary load measure specified by the user and geographical locality, assigning elements with similar keys to the same server. Though our mechanism is specifically designed to improve the performance of skip graphs, it can be adapted to provide deterministic, locality-preserving load-balancing to any d ...

Keywords: overlay networks, peer-to-peer systems

4 Data management systems: File structure determination

Anthony J. Winkler, Alfred G. Dale



Full text available: pdf(660,48 KB) Additional Information: fdll dilation, abstract, references

An approach to determining an appropriate file structure for a given application is presented, by outlining a methodology for comparing some important aspects of data management system performance. The aspect chosen for analysis is the processing time required to evaluate Boolean functions defined on data values contained within a file structure and select elements from the structure satisfying the expression. Two file structures are studied. The structures are each combinations of hierarchical a ...

Keywords: Boolean function evaluation, data management system, data structure, file structure, file structure determination, hierarchical file, hierarchy, inverted file, logical entry, modeling, processing algorithm, retrieval, simulation, storage structure, update

5 Computing graphical queries over XML data

Sara Comai, Ernesto Damiani, Piero Fraternali October 2001 ACM Transactions on Information Systems (TOIS), Volume 19 Issue 4

Full text available: Additional Information: full citation, abstract, references, citings, index

The rapid evolution of XML from a mere data exchange format to a universal syntax for encoding domain-specific information raises the need for new query languages specifically conceived to address the characteristics of XML. Such languages should be able not only to extract information from XML documents, but also to apply powerful transformation and restructuring operators, based on a well-defined semantics. Moreover, XML queries should be natural to write and understand, as nontechnical person ...

Keywords: Document restructuring, graphical query languages, semantics

6 Querying structured documents with hypertext links using OODBMS

V. Christophides, A. Rizk

September 1994 Proceedings of the 1994 ACM European conference on Hypermedia technology

Full text available: Additional Information: full citation, abstract, references, citings, index terms

Hierarchical logical structure and hypertext links are complementary and can be combined to build more powerful document management systems. Previous work exploits this complementarity for building better document processors, browsers and editing tools, but not for building sophisticated querying mechanisms. Querying in hypertext has been a requirement since [19] and has already been elaborated in many hypertext systems, but has not yet been used for hypertext systems superimposed on an und ...

Keywords: hypertexts, information retrieval, object oriented databases, path expressions, query languages, structured documents

7 An XML query engine for network-bound data







Zachary G. Ives, A. Y. Halevy, D. S. Weld





XML has become the lingua franca for data exchange and integration across administrative and enterprise boundaries. Nearly all data providers are adding XML import or export capabilities, and standard XML Schemas and DTDs are being promoted for all types of data sharing. The ubiquity of XML has removed one of the major obstacles to integrating data from widely disparate sources - namely, the heterogeneity of data formats. However, general-purpose integration of data across the wide are a also re ...

Keywords: Data integration, Data streams, Query processing, Web and databases, XML

8 XML data modeling and storage: XVerter, querying XML data with OR-DBMS Humberto Vieira, Gabriela Ruberg, Marta Mattoso November 2003 Proceedings of the 5th ACM international workshop on Web

information and data management

Full text available: (277.96 KB) Additional Information: full citation, abstract, references, index terms

Storage techniques and queries over XML databases are being widely studied. Most works store XML documents in traditional DBMSs in order to take advantage of a well established technology and also to store both structured data and XML data within a single system. This work proposes a translation mechanism to execute queries expressed on XQuery on top of XML documents that are stored in an object DBMS using the DOM implementation in disk. Rules for automatic translation from XQuery to SQL3 are pr ...

Keywords: DOM, SQL3, XML, XQuery, XSLT, object DBMS

XML query processing: Efficient evaluation of multiple queries on streaming XML data Mong Li Lee, Boon Chin Chua, Wynne Hsu, Kian-Lee Tan

November 2002 Proceedings of the eleventh international conference on Information and knowledge management

Full text available: modif(427.98 KB) Additional Information: full cliation, abstract, references, index terms

Traditionally, XML documents are processed at where they are stored. This allows the query processor to exploit pre-computed data structures (e.g., index) to retrieve the desired data efficiently. However, this mode of processing is not suitable for many applications where the documents are frequently updated. In such situations, efficient evaluation of multiple queries over streaming XML documents becomes important. This paper introduces a new operator, mqX-scan, which efficiently evaluates mul ...

Keywords: finite state machines, regular path expressions, streaming XML

10 XML and text: Querying structured text in an XML database

Shurug Al-Khalifa, Cong Yu, H. V. Jagadish

June 2003 Proceedings of the 2003 ACM SIGMOD international conference on Management of data

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(242.55 KB) terms

XML databases often contain documents comprising structured text. Therefore, it is important to integrate "information retrieval style" query evaluation, which is well-suited for natural language text, with standard "database style" query evaluation, which handles structured queries efficiently. Relevance scoring is central to information retrieval. In the







case of XML, this operation becomes more complex because the data required for scoring could reside not directly in an element itself but als ...

11 Proximal nodes: a model to guery document databases by content and structure Gonzalo Navarro, Ricardo Baeza-Yates October 1997 ACM Transactions on Information Systems (TOIS), Volume 15 Issue 4



Full text available: pdf(550,43 KB)

Additional Information: full citation, abstract, references, citings, index terms, review

A model to query document databases by both their content and structure is presented. The goal is to obtain a query language that is expressive in practice while being efficiently implementable, features not present at the same time in previous work. The key ideas of the model are a set-oriented query language based on operations on nearby structure elements of one or more hierarchies, together with content and structural indexing and bottom-up evaluation. The model is evaluated in regard t ...

Keywords: expressivity and efficiency of query languages, hierarchical documents, structured text, text algebras

12 Graph-based GUIs for querying XML data: the XML-GL experience



S. Comai

March 2001 Proceedings of the 2001 ACM symposium on Applied computing

Full text available: available: Additional Information: full citation, references, index terms

13 XML indexing and compression: ViST: a dynamic index method for guerying XML data by tree structures



Haixun Wang, Sanghyun Park, Wei Fan, Philip S. Yu

June 2003 Proceedings of the 2003 ACM SIGMOD international conference on Management of data

Full text available: pdf(244,47 KB)

Additional Information: full citation, abstract, references, citings, index terms

With the growing importance of XML in data exchange, much research has been done in providing flexible query facilities to extract data from structured XML documents. In this paper, we propose ViST, a novel index structure for searching XML documents. By representing both XML documents and XML queries in structure-encoded sequences, we show that querying XML data is equivalent to finding subsequence matches. Unlike index methods that disassemble a query into multiple sub-queries, and then joi ...

14 Ad Hoc Query: a reusable database access capability



J. Wolfe

July 1994 Proceedings of the eleventh annual Washington Ada symposium & summer ACM SIGAda meeting on Ada

Full text available: Response of (1.06 MB)

Additional Information: <u>full citation</u>, <u>references</u>, <u>index terms</u>

15 Streaming XML: XPath queries on streaming data



June 2003 Proceedings of the 2003 ACM SIGMOD international conference on Management of data

Full text available: pdf(433,73 KB)

Additional Information: full citation, abstract, references, citings, index terms

We present the design and implementation of the XSQ system for querying streaming XML data using XPath 1.0. Using a clean design based on a hierarchical arrangement of pushdown transducers augmented with buffers, XSQ supports features such as multiple predicates, closures, and aggregation. XSQ not only provides high throughput, but is also memory efficient: It buffers only data that must be buffered by any streaming XPath processor. We also present an empirical study of the performance character ...

16 An overview and classification of mediated guery systems.



Ruxandra Domeniq, Klaus R. Dittrich

September 1999 ACM SIGMOD Record, Volume 28 Issue 3

Full text available: 📆 pdf(397.34 KB) Additional Information: full citation, abstract, citings, index terms

Multimedia technology, global information infrastructures and other developments allow users to access more and more information sources of various types. However, the "technical" availability alone (by means of networks, WWW, mail systems, databases, etc.) is not sufficient for making meaningful and advanced use of all information available on-line. Therefore, the problem of effectively and efficiently accessing and querying heterogeneous and distributed data sources is an impo ...

17 Quasi-Valid range querying and its implications for nearest neighbor problems D. E. Willard, Y. C. Wee



January 1988 Proceedings of the fourth annual symposium on Computational geometry

Full text available: pdf(654,95 KB)

Additional Information: full citation, abstract, references, citings, index terms

We define a new formalism called the quasi-valid range aggregation. This formalism leads to a new and quite simple method for reducing non-range query-like problems to range queries and often to orthogonal range queries, with immediate applications to the ATTRACTED NEIGHBOR and the planar ALL-PAIRS NEAREST NEIGHBORS problems (the latter being solved optimally on both parallel and sequential machines). A point of special interest is that our new formalism permits operators "+" th ...

18 XML and semistructured data querying: Measuring similarity between collection of values



Carina F. Dorneles, Carlos A. Heuser, Andrei E. N. Lima, Altigran Soares da Silva, Edleno Silva de Moura

November 2004 Proceedings of the 6th annual ACM international workshop on Web information and data management

Full text available: 201264.58 KB Additional Information: full citation, abstract, references, index terms

In this paper, we propose a set of similarity metrics for manipulating collections of values occuring in XML documents.

Following the data model presented in TAX algebra, we treat an XML element as a labeled ordered rooted tree. Consider that XML nodes can be either atomic, i.e, they may contain single values such as short character strings, date, etc, or complex, i.e., nested structures that contain other nodes, we propose two types of similarity metrics: MAVs, for atomic nodes and MC ...

Keywords: XML, imprecise queries, similarity functions, vague queries

19 Research sessions: similarity and matching: Statistical synopses for graph-structured XML databases



Neoklis Polyzotis, Minos Garofalakis

June 2002 Proceedings of the 2002 ACM SIGMOD international conference on

Management of data

Full text available: Total (1.44 MB)

Additional Information: full citation, abstract, references, citings, index iems

Effective support for XML query languages is becoming increasingly important with the emergence of new applications that access large volumes of XML data. All existing proposals for querying XML (e.g., XQuery) rely on a pattern-specification language that allows path navigation and branching through the XML data graph in order to reach the desired data elements. Optimizing such queries depends crucially on the existence of concise synopsis structures that enable accurate compile-time sele ...

20 Approximate data structures with applications

Yossi Matias, Jeffrey Scott Vitter, Neal E. Young

January 1994 Proceedings of the fifth annual ACM-SIAM symposium on Discrete algorithms

Full text available: Rodf(938.64 KB) Additional Information: full citation, references, citings, index terms

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External memory algorithms and data structures: dealing with massive data

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Jeffrey Scott Vitter

June 2001 ACM Computing Surveys (CSUR), Volume 33 Issue 2

Full text available: pdf(828.46 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

Data sets in large applications are often too massive to fit completely inside the computers internal memory. The resulting input/output communication (or I/O) between fast internal memory and slower external memory (such as disks) can be a major performance bottleneck. In this article we survey the state of the art in the design and analysis of external memory (or EM) algorithms and data structures, where the goal is to exploit locality in order to reduce the I/O costs. We consider a varie ...

Keywords: B-tree, I/O, batched, block, disk, dynamic, extendible hashing, external memory, hierarchical memory, multidimensional access methods, multilevel memory, online, out-of-core, secondary storage, sorting

2 The string B-tree: a new data structure for string search in external memory and its applications



Paolo Ferragina, Roberto Grossi

March 1999 Journal of the ACM (JACM), Volume 46 Issue 2

Full text available: 📆 😅 (363,37 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> ierms

We introduce a new text-indexing data structure, the String B-Tree, that can be seen as a link between some traditional external-memory and string-matching data structures. In a short phrase, it is a combination of B-trees and Patricia tries for internal-node indices that is made more effective by adding extra pointers to speed up search and update operations. Consequently, the String B-Tree overcomes the theoretical limitations of inverted files, B-trees, prefix B-trees, s ...

Keywords: B-tree, Patricia trie, external-memory data structure, prefix and range search, string searching and sorting, suffix array, suffix tree, text index

The P-range tree: a new data structure for range searching in secondary memory



Sairam Subramanian, Sridhar Ramaswamy

January 1995 Proceedings of the sixth annual ACM-SIAM symposium on Discrete algorithms

Full text available: 📆 <u>cdf(1.22 MB)</u>

Additional Information: full citation, references, citings, index terms

Supporting dynamic data structures on distributed-memory machines

Anne Rogers, Martin C. Carlisle, John H. Reppy, Laurie J. Hendren

March 1995 ACM Transactions on Programming Languages and Systems (TOPLAS),

Volume 17 Issue 2

Full text available: (205 MB) Additional

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> <u>lerms</u>, <u>review</u>

Compiling for distributed-memory machines has been a very active research area in recent years. Much of this work has concentrated on programs that use arrays as their primary data structures. To date, little work has been done to address the problem of supporting programs that use pointer-based dynamic data structures. The techniques developed for supporting SPMD execution of array-based programs rely on the fact that arrays are statically defined and directly addressable. Recursive data s ...

Keywords: dynamic data structures

5 A general data dependence test for dynamic, pointer-based data structures

Joseph Hummel, Laurie J. Hendren, Alexandru Nicolau

June 1994 ACM SIGPLAN Notices, Proceedings of the ACM SIGPLAN 1994 conference
on Programming language design and implementation, Volume 29 Issue 6

Full text available: Residual (1.27 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

Optimizing compilers require accurate dependence testing to enable numerous, performance-enhancing transformations. However, data dependence testing is a difficult problem, particularly in the presence of pointers. Though existing approaches work well for pointers to named memory locations (i.e. other variables), they are overly conservative in the case of pointers to unnamed memory locations. The latter occurs in the context of dynamic, pointer-based data structures, used in a variety of a ...

6 Asynchronous shared memory search structures

Micah Adler

June 1996 Proceedings of the eighth annual ACM symposium on Parallel algorithms and architectures

Full text available: # pdf(1.35 MB)

Additional Information: full citation, references, citings, index terms

Burst tries: a fast, efficient data structure for string keys
April 2002 ACM Transactions on Information Systems (TOIS), Volume 20 Issue 2

Full text available: 📆 odi(324.84 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> <u>ierms</u>, <u>review</u>

Many applications depend on efficient management of large sets of distinct strings in memory. For example, during index construction for text databases a record is held for each distinct word in the text, containing the word itself and information such as counters. We propose a new data structure, the burst trie, that has significant advantages over existing options for such applications: it uses about the same memory as a binary search tree; it is as fast as a trie; and, while not as fast as a ...

Keywords: Binary trees, splay trees, string data structures, text databases, tries, vocabulary accumulation

Data structures: Cache-oblivious data structures for orthogonal range searching Pankaj K. Agarwal, Lars Arge, Andrew Danner, Bryan Holland-Minkley June 2003 Proceedings of the nineteenth annual symposium on Computational geometry



Full text available: pdf(353,23 KB)

Additional Information: full citation, abstract, references, citings, index

We develop cache-oblivious data structures for orthogonal range searching, the problem of finding all T points in a set of N points in IR^d lying in a query hyper-rectangle. Cacheoblivious data structures are designed to be efficient in arbitrary memory hierarchies. We describe a dynamic linear-size data structure that answers d-dimensional queries in O((N/B))(1-1)/d + T/B) memory transfers, where B is the block size of any two levels of ...

Keywords: cache-oblivious, orthogonal range searching

Main-memory index structures with fixed-size partial keys

Philip Bohannon, Peter McIlroy, Rajeev Rastogi

May 2001 ACM SIGMOD Record, Proceedings of the 2001 ACM SIGMOD international conference on Management of data, Volume 30 Issue 2

Full text available: pdf(185.51 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

The performance of main-memory index structures is increasingly determined by the number of CPU cache misses incurred when traversing the index. When keys are stored indirectly, as is standard in main-memory databases, the cost of key retrieval in terms of cache misses can dominate the cost of an index traversal. Yet it is inefficient in both time and space to store even moderate sized keys directly in index nodes. In this paper, we investigate the performance of tree structures suitable for ...

Keywords: B-trees, T-tree, cache coherence, key compression, main-memory indices

10 The Quadtree and Related Hierarchical Data Structures

Hanan Samet

June 1984 ACM Computing Surveys (CSUR), Volume 16 Issue 2

Full text available: 📆 oct(4.87 MB)

Additional Information: full citation, references, citings, index terms

11 Effective jump-pointer prefetching for linked data structures

Amir Roth, Gurindar S. Sohi

May 1999 ACM SIGARCH Computer Architecture News, Proceedings of the 26th annual international symposium on Computer architecture, Volume 27 Issue 2

Publisher Site

Full text available: ndf(113.33 KB) Additional Information: full citation, abstract, references, citings, index terms

Current techniques for prefetching linked data structures (LDS) exploit the work available in one loop iteration or recursive call to overlap pointer chasing latency. Jump pointers, which provide direct access to non-adjacent nodes, can be used for prefetching when loop and recursive procedure bodies are small and do not have sufficient work to overlap a long latency. This paper describes a framework for jump-pointer prefetching (JPP) that supports four prefetching idioms: queue, full, chain, an ...

12 Automatic pool allocation for disjoint data structures

Chris Lattner, Vikram Adve

June 2002 ACM SIGPLAN Notices, Proceedings of the workshop on Memory system performance, Volume 38 Issue 2 supplement

Full text available: pdf(1.48 MB)

Additional Information: full citation, abstract, references, citings

This paper presents an analysis technique and a novel program transformation that can enable powerful optimizations for entire linked data structures. The fully automatic transformation converts ordinary programs to use pool (aka region) allocation for heap-based data structures. The transformation relies on an efficient link-time interprocedural analysis to identify disjoint data structures in the program, to check whether these data structures are accessed in a type-safe manner, and to constru ...

13 Out-of-core build of a topological data structure from polygon soup

Sara McMains, Joseph M. Hellerstein, Carlo H. Séguin

May 2001 Proceedings of the sixth ACM symposium on Solid modeling and applications

Full text available: Sol(1.22 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u>

Many solid modeling applications require information not only about the geometry of an object but also about its topology. Most interchange formats do not provide this information, which the application must then derive as it builds its own topological data structure from unordered, "polygon soup" input. For very large data sets, the topological data structure itself can be bigger than core memory, so that a naive algorithm for building it that doesn't take virtual memory access p ...

14 A structural view of the Cedar programming environment

Daniel C. Swinehart, Polle T. Zellweger, Richard J. Beach, Robert B. Hagmann August 1986 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 8 Issue 4

Full text available: 📆 odl(6.32 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

This paper presents an overview of the Cedar programming environment, focusing on its overall structure—that is, the major components of Cedar and the way they are organized. Cedar supports the development of programs written in a single programming language, also called Cedar. Its primary purpose is to increase the productivity of programmers whose activities include experimental programming and the development of prototype software systems for a high-performance personal computer. T ...

15 Software transactional memory for dynamic-sized data structures

Maurice Herlihy, Victor Luchangco, Mark Moir, William N. Scherer

July 2003 Proceedings of the twenty-second annual symposium on Principles of distributed computing

Full text available: pdf(1.11 MB)

Additional Information: full citation, abstract, references, citings, index terms

We propose a new form of software transactional memory (STM) designed to support dynamic-sized data structures, and we describe a novel non-blocking implementation. The non-blocking property we consider is *obstruction-freedom*. Obstruction-freedom is weaker than lock-freedom; as a result, it admits substantially simpler and more efficient implementations. A novel feature of our obstruction-free STM implementation is its use of modular contention managers to ensure progress in practice. We ...

A general framework for prefetch scheduling in linked data structures and its



application to multi-chain prefetching

Seungryul Choi, Nicholas Kohout, Sumit Pamnani, Dongkeun Kim, Donald Yeung May 2004 ACM Transactions on Computer Systems (TOCS), Volume 22 Issue 2

Additional Information: full otation, abstract, references, index terms Full text available: mg col(2.45 MB)

Pointer-chasing applications tend to traverse composite data structures consisting of multiple independent pointer chains. While the traversal of any single pointer chain leads to the serialization of memory operations, the traversal of independent pointer chains provides a source of memory parallelism. This article investigates exploiting such interchain memory parallelism for the purpose of memory latency tolerance, using a technique called multichain prefetching. Previous work ...

Keywords: Data prefetching, memory parallelism, pointer-chasing code

17 Computation techniques for FPGAs: Techniques for synthesizing binaries to an advanced register/memory structure



Greg Stitt, Zhi Guo, Walid Najjar, Frank Vahid

February 2005 Proceedings of the 2005 ACM/SIGDA 13th international symposium on Field-programmable gate arrays

Full text available: Additional Information: full citation, abstract, references, index terms

Recent works demonstrate several benefits of synthesizing software binaries onto FPGA hardware, including incorporating hardware design into established software tool flows with minimal impact, porting existing binaries to FPGAs, and even dynamically synthesizing software kernels to faster FPGA coprocessors. Those works showed that standard binary decompilation methods can recover enough high-level control information to result in reasonably-efficient hardware. However, recent synthesis methods ...

Keywords: FPGA, binaries, decompilation, embedded systems, smart buffers, synthesis

18 Pointer analysis for structured parallel programs

Radu Rugina, Martin C. Rinard

January 2003 ACM Transactions on Programming Languages and Systems (TOPLAS), Volume 25 Issue 1

Full text available: pdf(383,29 KB) Additional Information: full citation, abstract, references, index terms

This paper presents a novel interprocedural, flow-sensitive, and context-sensitive pointer analysis algorithm for multithreaded programs that may concurrently update shared pointers. The algorithm is designed to handle programs with structured parallel constructs, including fork-join constructs, parallel loops, and conditionally spawned threads. For each pointer and each program point, the algorithm computes a conservative approximation of the memory locations to which that pointer may point. Th ...

Keywords: Pointer analysis

19 Compiler-based prefetching for recursive data structures

Chi-Keuna Luk, Todd C. Mowry

October 1996 Proceedings of the seventh international conference on Architectural support for programming languages and operating systems, Volume 30, 31 Issue 5, 9

Full text available: 7 pdf(1.51 MB)

Additional Information: full citation, abstract, references, citings, index

Software-controlled data prefetching offers the potential for bridging the ever-increasing

speed gap between the memory subsystem and today's high-performance processors. While prefetching has enjoyed considerable success in array-based numeric codes, its potential in pointer-based applications has remained largely unexplored. This paper investigates compiler-based prefetching for pointer-based applications---in particular, those containing recursive data structures. We identify the fundamental ...

20 The structure of Cedar



Daniel C. Swinehart, Polle T. Zellweger, Robert B. Hagmann June 1985 Proceedings of the ACM SIGPLAN 85 symposium on Language issues in programming environments, Volume 20, 18 Issue 7, 6

Full text available: 79 MB)

Additional Information: full citation, abstract, references, citings, index terms

This paper presents an overview of the Cedar programming environment, focusing primarily on its overall structure: the major components of Cedar and the way they are organized. Cedar supports the development of programs written in a single programming language. also called Cedar. We will emphasize the extent to which the Cedar language, with runtime support, has influenced the organization, comprehensibility, and stability of Cedar. Produced in the Computer Science Laboratory (CS ...

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1 Semistructured Data: Structural proximity searching for large collections of semistructured data

Michael Barg, Raymond K. Wong

October 2001 Proceedings of the tenth international conference on Information and knowledge management

Full text available: pdf(1.92 MB)

Additional Information: full citation, abstract, references, citings, index terms

The richness of the XML data format allows data to be structured in a way which precisely captures the semantics required by the author. It is the structure of the data, however, which forms the basis of all XML query languages. Without at least some notion of the structure, a user cannot meaningfully query the data. This problem is compounded when one considers that heterogeneous data adhering to different schema are likely to exist in the database(s) being queried. This paper proposes a soluti ...

2 Proximal nodes: a model to guery document databases by content and structure Gonzalo Navarro, Ricardo Baeza-Yates October 1997 ACM Transactions on Information Systems (TOIS), Volume 15 Issue 4



Full text available: pdf(550,43 KB)

Additional Information: full citation, abstract, references, citings, index terms, review

A model to query document databases by both their content and structure is presented. The goal is to obtain a query language that is expressive in practice while being efficiently implementable, features not present at the same time in previous work. The key ideas of the model are a set-oriented query language based on operations on nearby structure elements of one or more hierarchies, together with content and structural indexing and bottom-up evaluation. The model is evaluated in regard t ...

Keywords: expressivity and efficiency of query languages, hierarchical documents, structured text, text algebras

An XML query engine for network-bound data

Zachary G. Ives, A. Y. Halevy, D. S. Weld

December 2002 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 11 Issue 4

Full text available: Additional Information: full citation, abstract, citings, index terms

XML has become the lingua franca for data exchange and integration across administrative and enterprise boundaries. Nearly all data providers are adding XML import or export capabilities, and standard XML Schemas and DTDs are being promoted for all types of data sharing. The ubiquity of XML has removed one of the major obstacles to integrating data from widely disparate sources - namely, the heterogeneity of data formats. However, general-purpose integration of data across the wide are a also re ...

Keywords: Data integration, Data streams, Query processing, Web and databases, XML

Computing graphical queries over XML data

Sara Comai, Ernesto Damiani, Piero Fraternali

October 2001 ACM Transactions on Information Systems (TOIS), Volume 19 Issue 4

Full text available: 707.80 KB)

Additional Information: full citation, abstract, references, citings, index terms

The rapid evolution of XML from a mere data exchange format to a universal syntax for encoding domain-specific information raises the need for new query languages specifically conceived to address the characteristics of XML. Such languages should be able not only to extract information from XML documents, but also to apply powerful transformation and restructuring operators, based on a well-defined semantics. Moreover, XML queries should be natural to write and understand, as nontechnical person ...

Keywords: Document restructuring, graphical query languages, semantics

5 The Quadtree and Related Hierarchical Data Structures

Hanan Samet

June 1984 ACM Computing Surveys (CSUR), Volume 16 Issue 2

Full text available: pdf(4.87 MB)

Additional Information: full citation, references, citings, index terms

6 XML indexing and compression: ViST: a dynamic index method for querying XML data by tree structures

Haixun Wang, Sanghyun Park, Wei Fan, Philip S. Yu

June 2003 Proceedings of the 2003 ACM SIGMOD international conference on Management of data

Full text available: pdf(244,47 KB)

Additional Information: full citation, abstract, references, citings, index

With the growing importance of XML in data exchange, much research has been done in providing flexible query facilities to extract data from structured XML documents. In this paper, we propose ViST, a novel index structure for searching XML documents. By representing both XML documents and XML queries in structure-encoded sequences, we show that querying XML data is equivalent to finding subsequence matches. Unlike index methods that disassemble a query into multiple sub-queries, and then joi ...

7 XIRQL: An XML query language based on information retrieval concepts Norbert Fuhr, Kai Großjohann

April 2004 ACM Transactions on Information Systems (TOIS), Volume 22 Issue 2

Full text available: pcif(281.91 KB)

Additional Information: full citation, abstract, references, citings, index terms

XIRQL ("circle") is an XML query language that incorporates imprecision and vagueness for both structural and content-oriented query conditions. The corresponding uncertainty is handled by a consistent probabilistic model. The core features of XIRQL are (1) document







ranking based on index term weighting, (2) specificity-oriented search for retrieving the most relevant parts of documents, (3) datatypes with vague predicates for dealing with specific types of content and (4) structural vagueness f ...

Keywords: Path algebra, XML, XQuery, probabilistic retrieval, ranked retrieval, vague predicates

Data management systems: File structure determination



Anthony J. Winkler, Alfred G. Dale

April 1971 Proceedings of the 1971 international ACM SIGIR conference on Information storage and retrieval

Full text available: df(660.48 KB) Additional Information: full citation, abstract, references

An approach to determining an appropriate file structure for a given application is presented, by outlining a methodology for comparing some important aspects of data management system performance. The aspect chosen for analysis is the processing time required to evaluate Boolean functions defined on data values contained within a file structure and select elements from the structure satisfying the expression. Two file structures are studied. The structures are each combinations of hierarchical a ...

Keywords: Boolean function evaluation, data management system, data structure, file structure, file structure determination, hierarchical file, hierarchy, inverted file, logical entry, modeling, processing algorithm, retrieval, simulation, storage structure, update

Document management: Context representation, transformation and comparison for ad hoc product data exchange



Jingzhi Guo, Chengzheng Sun

November 2003 Proceedings of the 2003 ACM symposium on Document engineering

Full text available: cdf(275.65 KB) Additional Information: full citation, abstract, references, index terms

Product data exchange is the precondition of business interoperation between Web-based firms. However, millions of small and medium sized enterprises (SMEs) encode their Web product data in ad hoc formats for electronic product catalogues. This prevents product data exchange between business partners for business interoperation. To solve this problem, this paper has proposed a novel concept-centric catalogue engineering approach for representing, transforming and comparing semantic contexts in a ...

Keywords: XML product map, XPM, ad hoc product data exchange, concept, context comparison, context representation, context transformation, electronic commerce, electronic product catalogue, product data integration, semantics

10 External memory algorithms and data structures; dealing with massive data Jeffrey Scott Vitter



June 2001 ACM Computing Surveys (CSUR), Volume 33 Issue 2

Full text available: pdf(828,46 KB)

Additional Information: full cliation, abstract, references, citings, index terms

Data sets in large applications are often too massive to fit completely inside the computers internal memory. The resulting input/output communication (or I/O) between fast internal memory and slower external memory (such as disks) can be a major performance bottleneck. In this article we survey the state of the art in the design and analysis of external memory (or EM) algorithms and data structures, where the goal is to exploit locality in order to reduce the I/O costs. We consider a varie ...

Keywords: B-tree, I/O, batched, block, disk, dynamic, extendible hashing, external memory, hierarchical memory, multidimensional access methods, multilevel memory, online, out-of-core, secondary storage, sorting

11 Query optimization in a memory-resident domain relational calculus database system Kyu-Young Whang, Ravi Krishnamurthy



March 1990 ACM Transactions on Database Systems (TODS), Volume 15 Issue 1

Full text available: pdf(2.46 MB)

Additional Information: full citation, abstract, references, citings, index terms

We present techniques for optimizing queries in memory-resident database systems. Optimization techniques in memory-resident database systems differ significantly from those in conventional disk-resident database systems. In this paper we address the following aspects of query optimization in such systems and present specific solutions for them: (1) a new approach to developing a CPU-intensive cost model; (2) new optimization strategies for main-memory query processing; (3) new insight into ...

12 A Comparison of the Relational and CODASYL Approaches to Data-Base Management



Ann S. Michaels, Benjamin Mittman, C. Robert Carlson January 1976 **ACM Computing Surveys (CSUR)**, Volume 8 Issue 1

Full text available: pdf(2.06 MB)

Additional Information: full citation, references, citings, index terms

13 RE-tree: an efficient index structure for regular expressions



Chee-Yong Chan, Minos Garofalakis, Rajeev Rastogi

August 2003 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 12 Issue 2

Full text available: pdf(346.00 KB) Additional Information: full citation, abstract, index terms

Abstract. Due to their expressive power, regular expressions (REs) are quickly becoming an integral part of language specifications for several important application scenarios. Many of these applications have to manage huge databases of RE specifications and need to provide an effective matching mechanism that, given an input string, quickly identifies the REs in the database that match it. In this paper, we propose the RE-tree, a novel index structure for large databases of RE specifications. Gi ...

Keywords: Index structure, Regular expressions, Sampling-based approximations, Size measures

14 Session 4A: Retroactive data structures



Erik D. Demaine, John Iacono, Stefan Langerman

January 2004 Proceedings of the fifteenth annual ACM-SIAM symposium on Discrete algorithms

Full text available: pcif(183.43 KB) Additional Information: full citation, abstract, references

We introduce a new data structuring paradigm in which operations can be performed on a data structure not only in the present but also in the past. In this new paradigm, called retroactive data structures, the historical sequence of operations performed on the data structure is not fixed. The data structure allows arbitrary insertion and deletion of operations at arbitrary times, subject only to consistency requirements. We initiate the study of retroactive data structures by formally def ...

15 Query Optimization in Database Systems

Matthias Jarke, Jurgen Koch

June 1984 ACM Computing Surveys (CSUR), Volume 16 Issue 2

Full text available: cost(2.84 MB) Additional Information: full citation, references, citings, index terms

16 Deferred data structuring: Query-driven preprocessing for geometric search problems R Motwani, P Raghavan



Full text available: def(672.79 KB)

-Additional Information: full citation, abstract, references, citings, index terms

We consider the problem of answering a series of on-line queries on a static database. The conventional approach to such problems involves a preprocessing phase which constructs a data structure with good search behavior. The data structure is then used to process a series of queries without any further reordering. Our approach involves dynamic or query-driven structuring of the database, i.e. we process the database only when it is required for answering a query. We present optimal algorit ...

17 Algebraic query optimisation for database programming languages

Alexandra Poulovassilis, Carol Small

April 1996 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 5 Issue 2

Full text available: additional Information: full citation, abstract, citings, index terms

A major challenge still facing the designers and implementors of database programming languages (DBPLs) is that of query optimisation. We investigate algebraic query optimisation techniques for DBPLs in the context of a purely declarative functional language that supports sets as first-class objects. Since the language is computationally complete issues such as non-termination of expressions and construction of infinite data structures can be investigated, whilst its declarative nature allows th ...

Keywords: Algebraic manipulation, Database management, Database programming languages, Functional languages, Query optimisation

18 Data structures and algorithms for nearest neighbor search in general metric spaces Peter N. Yianilos



algorithms

Full text available: ndf(1.34 MB) Additional Information: full citation, references, citings, index terms

Keywords: associative memory, clustering, computational geometry, metric space, nearest neighbor, pattern recognition, randomized methods

19 A language for queries on structure and contents of textual databases Gonzalo Navarro, Ricardo Baeza-Yates

July 1995 Proceedings of the 18th annual international ACM SIGIR conference on Research and development in information retrieval

Full text available: cdf(1.05 MB) Additional Information: full citation, references, citings, index terms

20 Semantics of query languages for network databases



Kazimierz Subieta

September 1985 ACM Transactions on Database Systems (TODS), Volume 10 Issue 3

Full text available: ## pdf(3.71 MB)

Additional Information: fall citation, abstract, references, index terms

Semantics determines the meaning of language constructs; hence it says much more than syntax does about implementing the language. The main purpose of this paper is a formal presentation of the meaning of basic language constructs employed in many database languages (sublanguages). Therefore, stylized query languages SSL (Sample Selection Language) and J (Joins) are introduced, wherein most of the typical entries present in other query languages are collected. The semantics of SSL and J are ...

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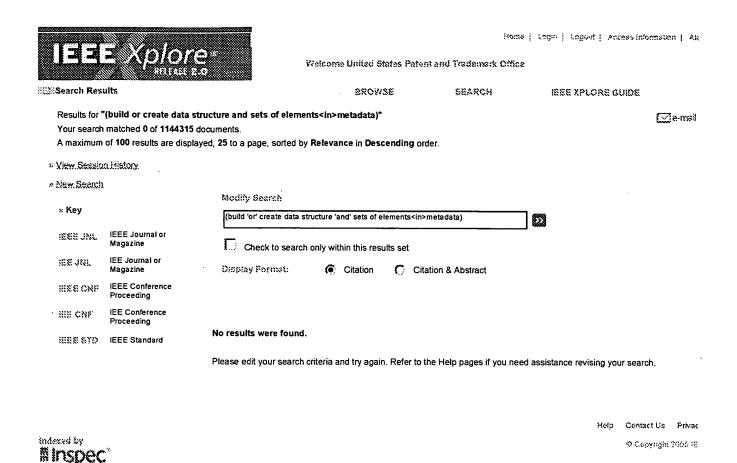
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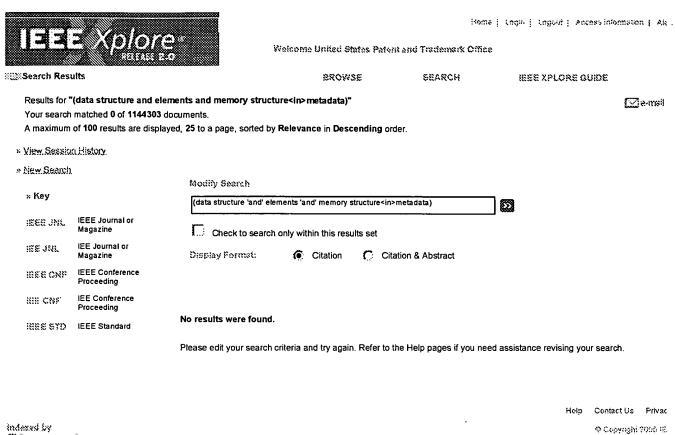
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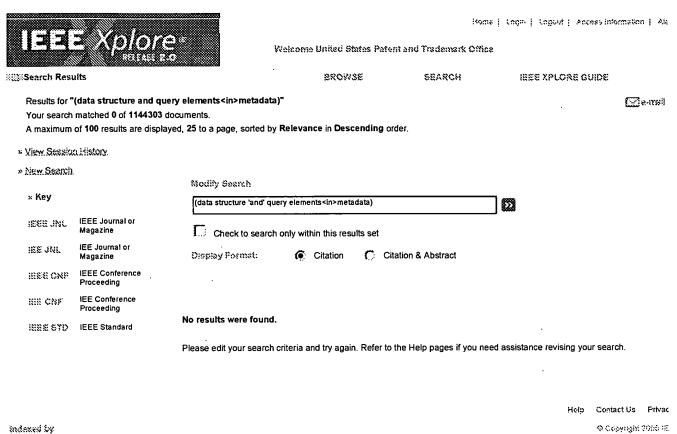
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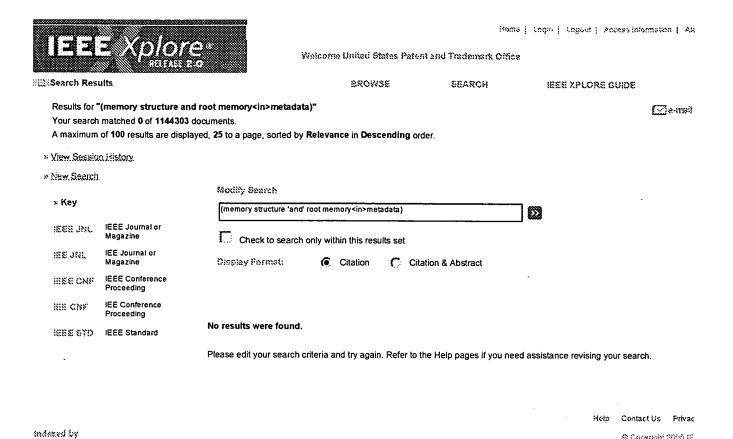


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Result # 1 Relevance: (3)



Graphical user interface for editing a palette of col-

Sep-2000 IPCOM00001487D

A graphical user interface is disclosed for interactively editing a colors in response to signals from a user, such as from a pointir interface provides a color space in a color space window on the

and draws each color in the palette in ...

Result # 2 Relevance:



Hybrid finite-queue / circular queue data structure

.20-Jun-2003 IPCOM000015286D

Hybrid finite-queue circular queue data structure This publicatio hybrid data structure that is a cross between a circular queue a growable queue. The data structure starts out as an infinitely grand when it reaches a certain size, ...

Result # 3 Relevance:



Basic Socket Interface Extensions for IPv6 (RFC25

13-Sep-2000 IPCOM000003139D

The de facto standard application program interface (API) for TC applications is the "sockets" interface. Although this API was de Unix in the early 1980s it has also been implemented on a wide Unix systems. TCP/IP applications ...

Result # 4 Relevance: COCOCOC



Cabletron's VLS Protocol Specification (RFC2642)

13-Sep-2000 IPCOM000003230D

The Virtual LAN Link State Protocol (VLSP) is part of the InterSv Protocol (ISMP) which provides interswitch communication betw running Cabletron's SecureFast VLAN (SFVLAN) product. VLSP is determine and maintain a fully connected mesh ...

Result # 5 Relevance: COCO



A Data Restructuring Methodology for Reducing All Cache Lines

20-May-2003 IPCOM000012685D

Presented is a methodology for reducing the number of cache li the fields composing a structure, that are accessed during appli execution. This would in turn reduce the number of cache lines, the amount of data, transferred between ...

Result # 6 Relevance:



Basic Socket Interface Extensions for IPv6 (RFC34

18-Mar-2003

IPCOM000011809D

The de facto standard Application Program Interface (API) for T applications is the "sockets" interface. Although this API was de Unix in the early 1980s it has also been implemented on a wide

Unix systems. TCP/IP applications ...

Result # 7 Relevance:



Differential Index Management With Low Priority E Updating in Database Management Systems

15-Feb-2005

IPCOM000057627D

Fr

A technique is described whereby differential index managemer data files of relational database management systems allows all continually current, without incurring significant updating overh several problems can exist whenever a ...

Result #8 Relevance:



Computer Aided Design Data Handler with Logical

30-Mar-2005

IPCOM000115220D

Er

This article describes a Computer Aided Design (CAD) data strusystem, which manages CAD-related graphic/geometry/other at entities representing certain structures by relational pointers. It functional capability which makes it possible to ...

Result # 9 Relevance:



Data Structure for Selecting Objects by Name or fra Attributes

19-Mar-2005

IPCOM000104586D

Er

Selecting from among a very large set of objects that share ma simplified by allowing the user to select an object either by givin by choosing from among the attributes to arrive at a name. Eac selects an attribute, the remaining ...

Result # 10 Relevance:



The method of displaying and operating a map bet complicated data structures

23-Apr-2003

IPCOM000012253D

Er

This article is to say a way of displaying and operating mapping between complicated data structures. Showing an arrow from a item to a target data item is a general way of displaying the ma hard to show all the arrows at the same ...

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Search query: data structure

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April 15, 2005

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Document ID	
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Publish Disclosure	
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How database-driven apps can overcome telecom's top challenges. www.mysql.com

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Systems Programming

... the programmer must handle **memory** management for complex **data structures** ... no **memory** available */ p->first = NULL; /* **set** pointer to the first **element** ... www.csc.calpoly.edu/~fkurfess/Courses/ 317/S05/Slides/3-C-Data-Structures/3-C-Data-Structures.html - 20k - <u>Cached</u> - <u>Similar pages</u>

Bounds on Unnecessary Space Retention by Conservative Garbage the program relied on deallocating reachable, but unaccessed memory. ... Call a data structure, ie a set of objects, circular if, for any two objects x ... www.hpl.hp.com/personal/Hans_Boehm/gc/bounds.html - 10k - Cached - Similar pages

Elements of Data Structures and Algorithms

... A structure is a set of relations of some elements. Generally, a data ... can access only a sequence of memory units, and thus any structure that is not ... www.ici.pku.edu.cn/member/ bswen/_old_stuff/art/chapter-4.html - 8k - Cached - Similar pages

Application Development Guide -- Core Components

... Remote Procedure Call with Character/Code Set Interoperability ... Binding Data Structure Size Calculation Macros; Schema Entry Data Structure Size ... www.univie.ac.at/dcedoc/A3U2J/A3U2JM02.HTM - 61k - Cached - Similar pages

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Universal Data Structure

... In most cases the LDS will point to the **memory structure** that holds the **data** and ... Section - named **element** that contains a **set** of records and other ... www.newobjects.com/pages/ndi/ VarDictionary/ref-StructuredConfigurations.htm - 22k - Cached - Similar pages

The Structure of a Collection. Ver 1.0+

... of a element class to refer to the structure of the collection as a whole. ... A collection also has a set of data fields and member functions that are ... www.extreme.indiana.edu/ sage/pcxx_ug/subsection3_5_4.html - 10k - Cached - Similar pages

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JOT: Journal of Object Technology - On Supporting Structure ...

... types of the data values, and the hierarchical structure of the elements. ...

The hierarchical structure of elements in XML certainly called for query ...

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... Ctree is an effective data structure for managing XML data. ... Q, a query tree.

Output: A list of elements in T that satisfy the Q. ...

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Wayne's Little **Data Structures** and Algorithms Library

... Many of them are taken verbatim from textbooks on data structures and ...

For 16384 elements each about 1K in size, it's about 10 times faster than ...

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Query Languages for XML

... For instance, here is an OQL query that finds all SECT1 elements that ...

The form of the query depends on the data structures used to implement the ...

mailman.ic.ac.uk/pipermail/ xml-dev/1997-November/001296.html - 12k - Cached - Similar pages

Introduction

... To build up your query you simply drag and drop elements and attributes among

... the structure of the target data; that is, the structure of the query ...

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- ... The XML data model addresses this limitation by allowing for extensible element
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<u>dD</u> Range and Segment Tree

- ... This chapter presents the CGAL range tree and segment tree data structures.
- ... a window query is performed, and the query elements are given out. ...

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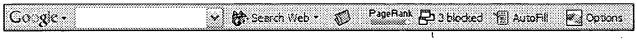
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Glossary - S

... part of a Structured Query Language statement, stack: A data structure in which new elements are added to and removed from the top of the structure. ... www.absoft.com/Products/Compilers/ C_C++/XLC/docs/glossary/czgs.htm - 24k - Cached - Similar pages

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